

52-24 Aseptico ADU-10CF Field Unit and AA-75F Air Compressor (Project 96-68) (8/07)

The ADU-10CF Field Unit and AA-75F Air Compressor by Aseptico are designed to be used together to provide the capability to perform general dental procedures under field conditions. The system is lightweight, compact, easy to transport, and takes only minutes to assemble. The unit and compressor are supplied in two military specification plastic cases (modules). The ADU-10CF Unit module measures 17.5 inches by 16 inches by 17 inches and weighs 30.5 pounds. The unit is supplied with two handpiece connections: one for a highspeed or sonic scaler and one for a slow speed handpiece. Only the high-speed connection is supplied with fiberoptics and water coolant. The unit also features a foot control with wet/dry toggle switch, air/water syringe, handpiece selector switch, air and water coolant adjustment knobs, and separate water system with handpiece flush. The air venturi suction is designed to provide both high- and low-volume evacuation. In order to provide optimum performance, operation of both high- and low-volume evacuation at the same time is not recommended. An auto-float shut-off device prevents overflow of the waste collection receptacle. The second module contains the : horsepower oil-less compressor with 1-gallon air storage tank. The compressor module measures 19 inches by 19 inches by 17.3 inches and weighs 90 pounds. The system is 115/230 volts 50/60 hertz switchable.



Manufacturer:

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Suggested Retail Price:

ADU-10CF Unit \$6,799.00
AA-75F Compressor \$4,059.00
System \$10,858.00

Government Price:

ADU-10CF Unit \$6,599.00
AA-75F Compressor \$3,959.00
System \$10,558.00

ADVANTAGES:

- + Lightweight, compact and easy to assemble; specifically designed for field use.
- + Packaged in two easy-to-transport military specification cases.
- + Entire system weighs only 120 pounds.
- + Unit controls are easy to understand and use.
- + Air compressor is dual voltage and switchable.
- + Has automatic overflow device in waste collection system.
- + Clinical evaluators reported that the operating instructions were complete and easy to understand.

DISADVANTAGES:

- AA-75F Air Compressor exceeds allowable noise levels.
- Oral evacuation system does not meet minimum specifications for suction.
- Lacks a 110/115-volt duplex outlet needed to power accessory equipment such as an amalgamator and curing light.
- A 110/115-volt outlet is needed in the treatment area to power the fiberoptic handpiece lighting system.

- Only one handpiece hose is equipped with fiberoptics and coolant water.
- Waste canister is difficult to clean, breakable, and lacks solids collector.
- Fiberoptic light is not operator adjustable.
- Clinical evaluators reported the handpiece hoses did not reach all areas of the oral cavity.
- Access to internal parts for adjustment or repair is difficult.
- No service manual is available.

SUMMARY AND CONCLUSIONS:

The Aseptico ADU-10CF Field Unit and AA-75F Air Compressor is designed to be a true dental field unit. The unit and compressor met all electrical safety tests and met the specifications for size and weight. The compressor and unit are provided in plastic cases that meet military specifications. The compressor is switchable between 110/115 and 220/230 volts as required. A step-down transformer and 110/115-volt duplex electrical outlet needed to power accessory equipment such as an amalgamator or curing light are not provided. The oral evacuation system did not meet minimum performance standards as tested in the DIS laboratory and three of the four clinical evaluators felt the suction was inadequate for dental procedures. The AA-75F Air Compressor exceeds the maximum allowable noise level of 75 decibels and all clinical evaluators reported the noise was objectionable. The **Aseptico ADU-10CF Field Unit and AA-75F Air Compressor** is rated **Marginal** for use by the federal dental services.